

Figure 1

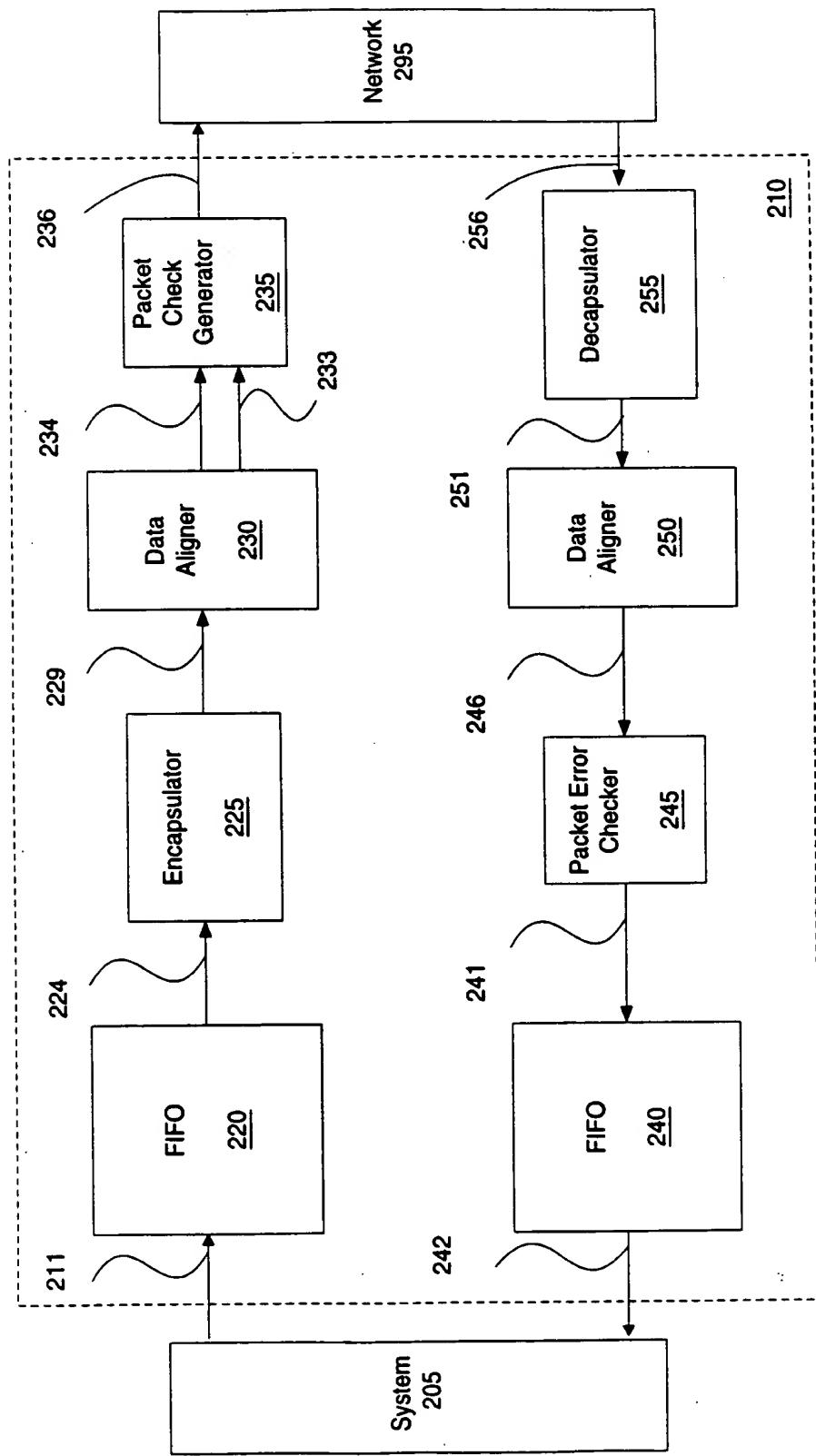


Figure 2

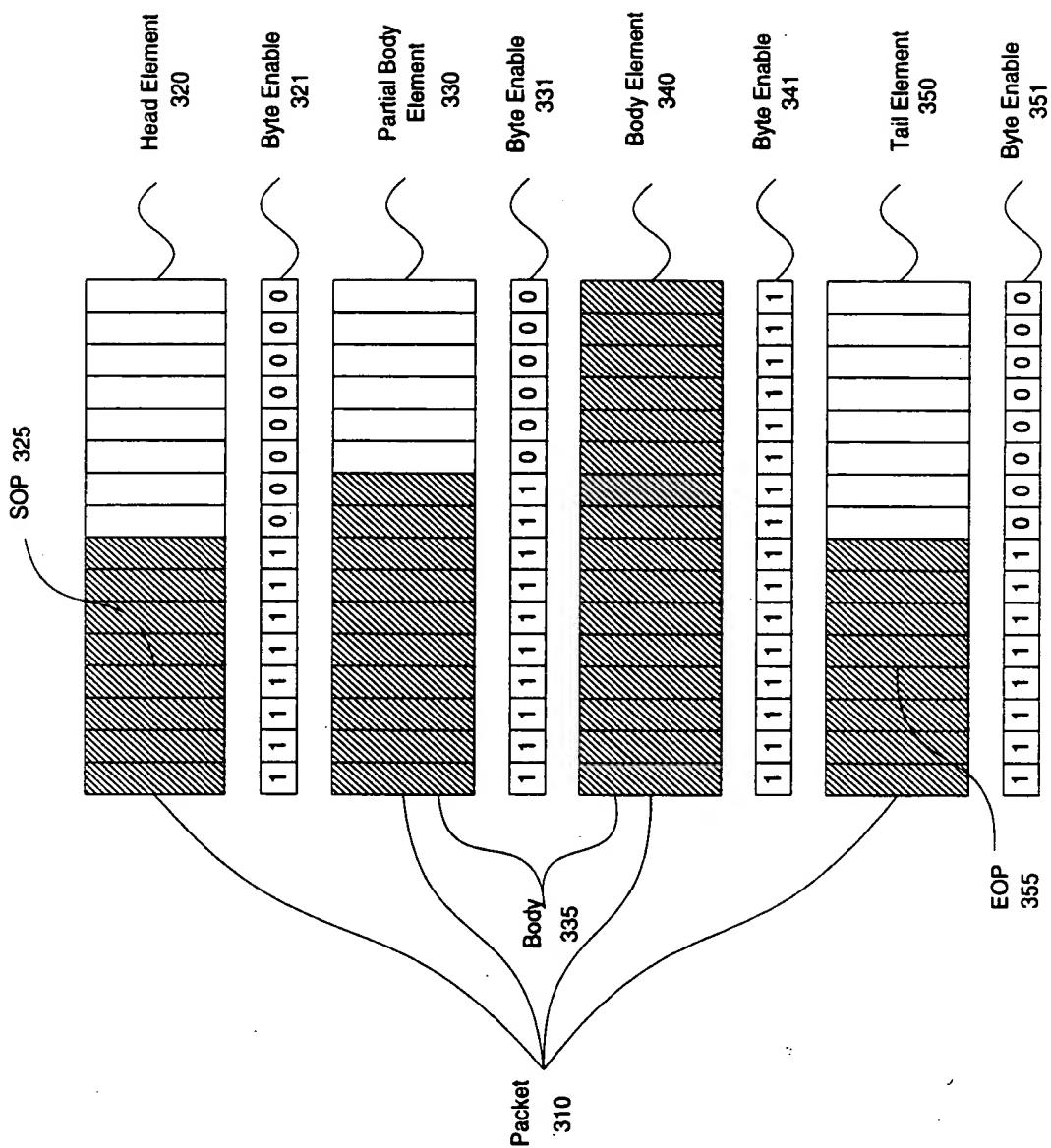


Figure 3

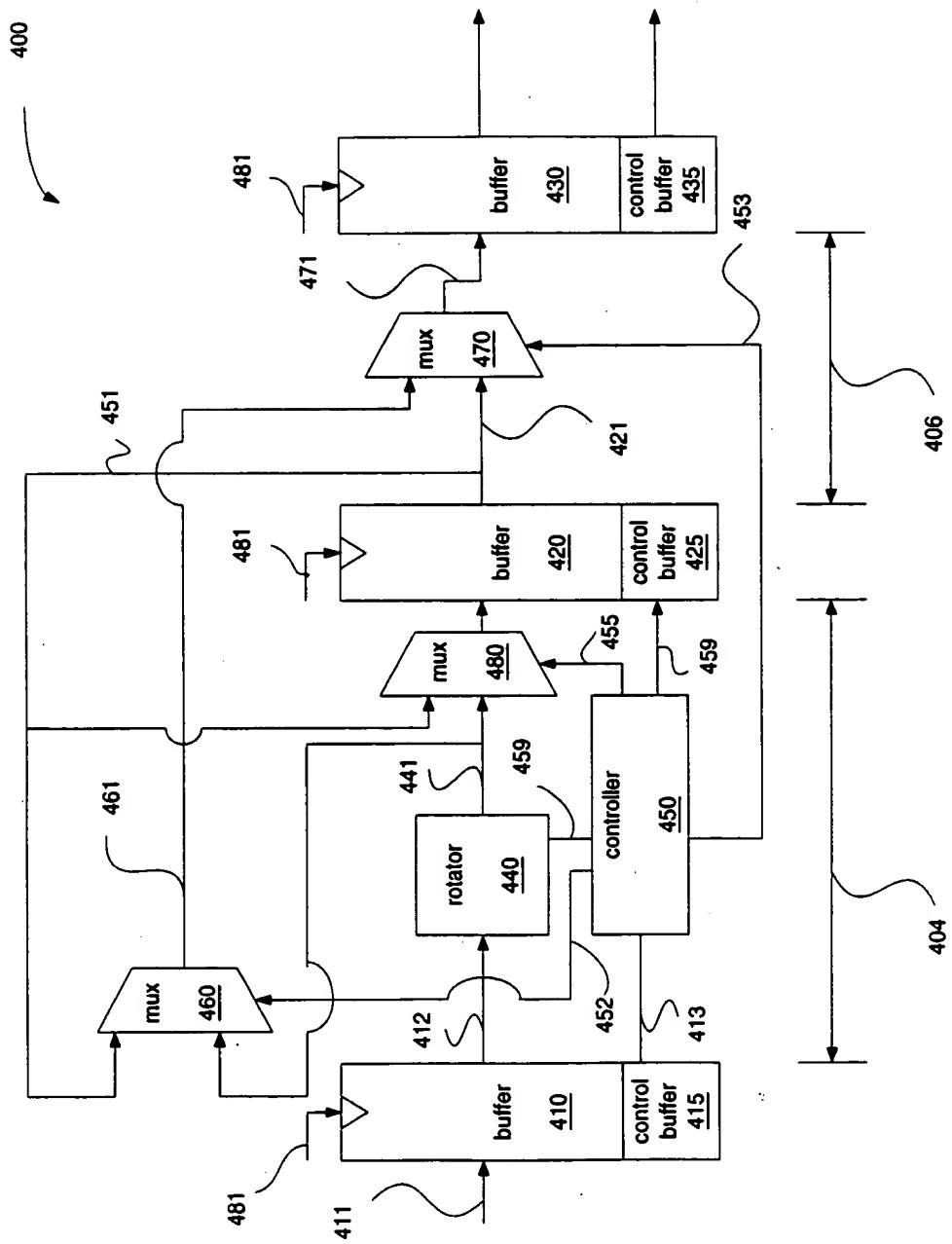


Figure 4

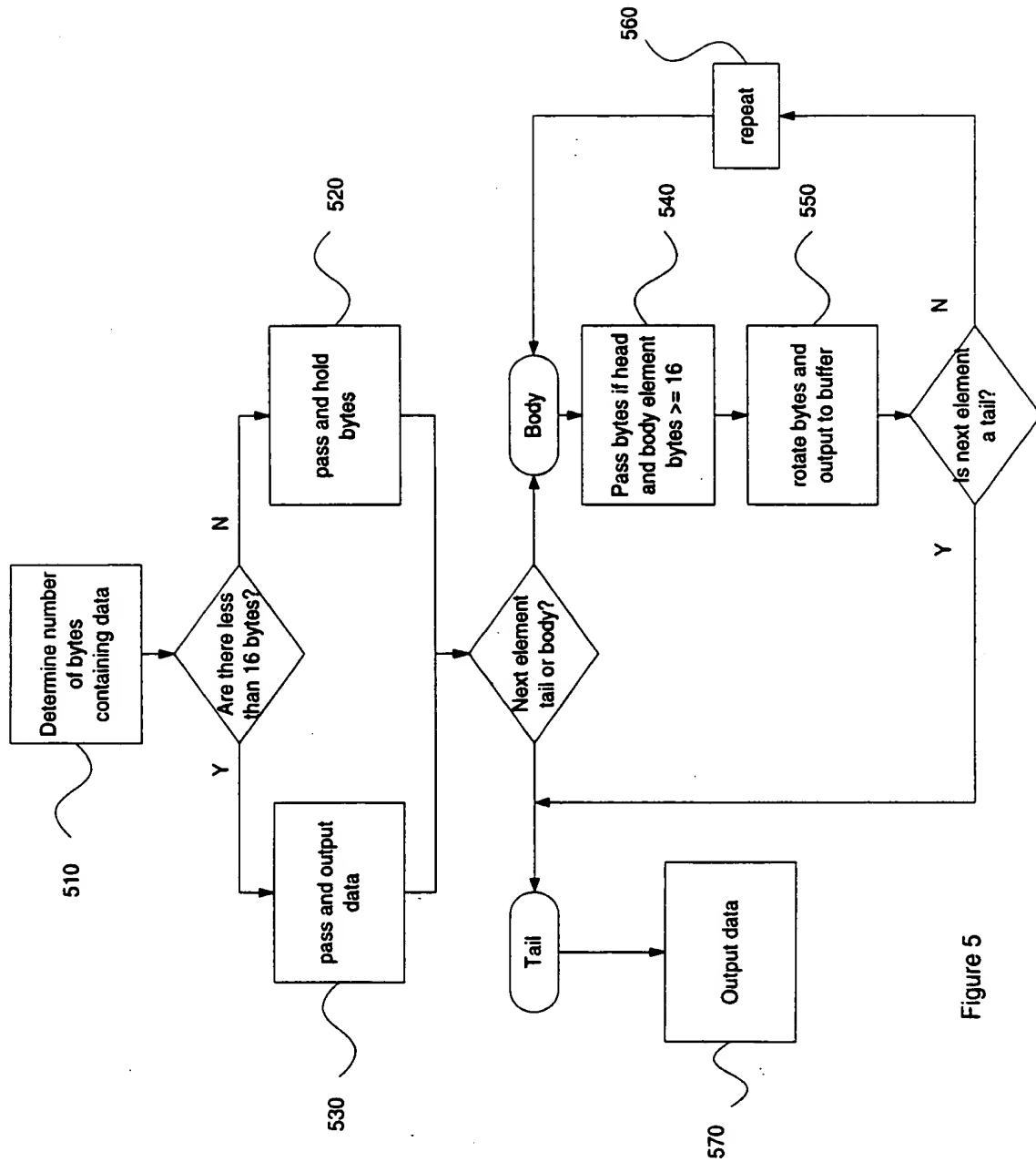


Figure 5

Complex Data stream Element	Mapped Data stream Element	Qualifier	Mapping Flow
610 Head	Head		Same sequence as in simple data stream
620 Body	Body		Same sequence as in simple data stream
630 Tail	Tail		Same sequence as in simple data stream
640 Hold	Hold		Hold state
650 Partial Body (Tail A)	Tail	Net Count <16	Follow tail sequence but: Suppress data aligner control output. Bypass intermediate buffer. Perform calculation using unpassed result.
660 Partial Body (Tail B)	Tail	Net Count >=16	Follow tail sequence but: Do not suppress byte enables, SOP. Suppress generation of EOP control signal. No bypass for computation.

Figure 6

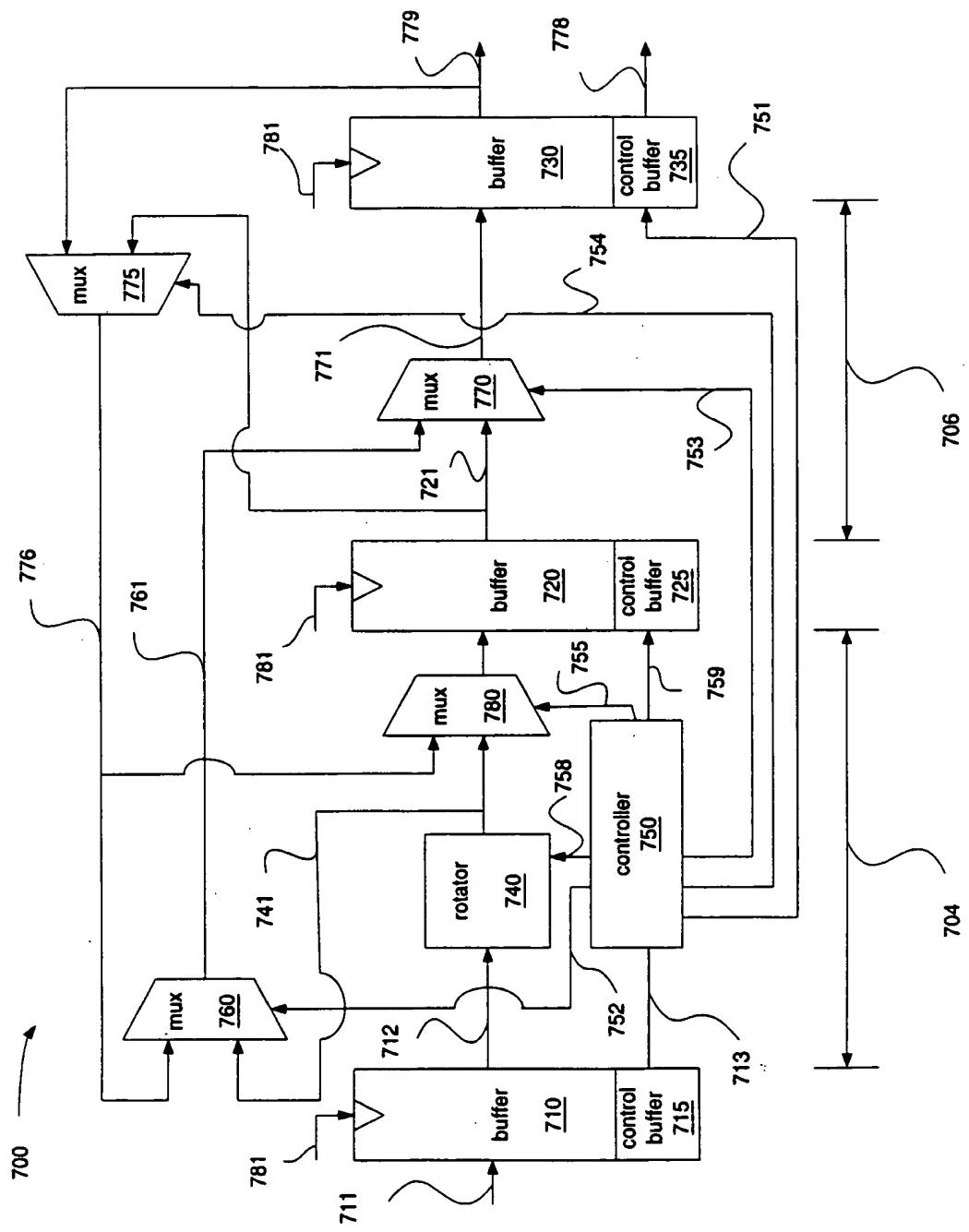


Figure 7

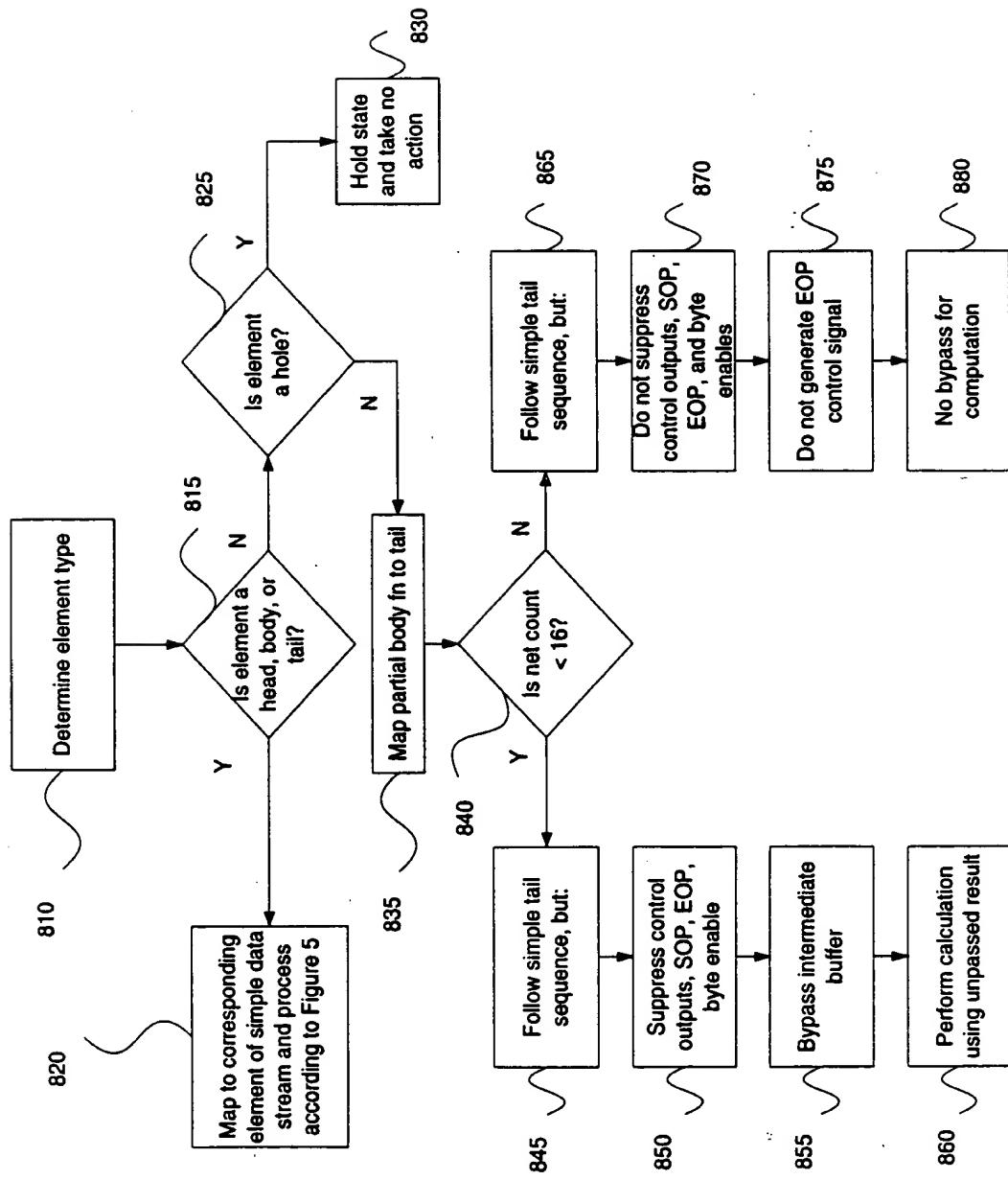


Figure 8

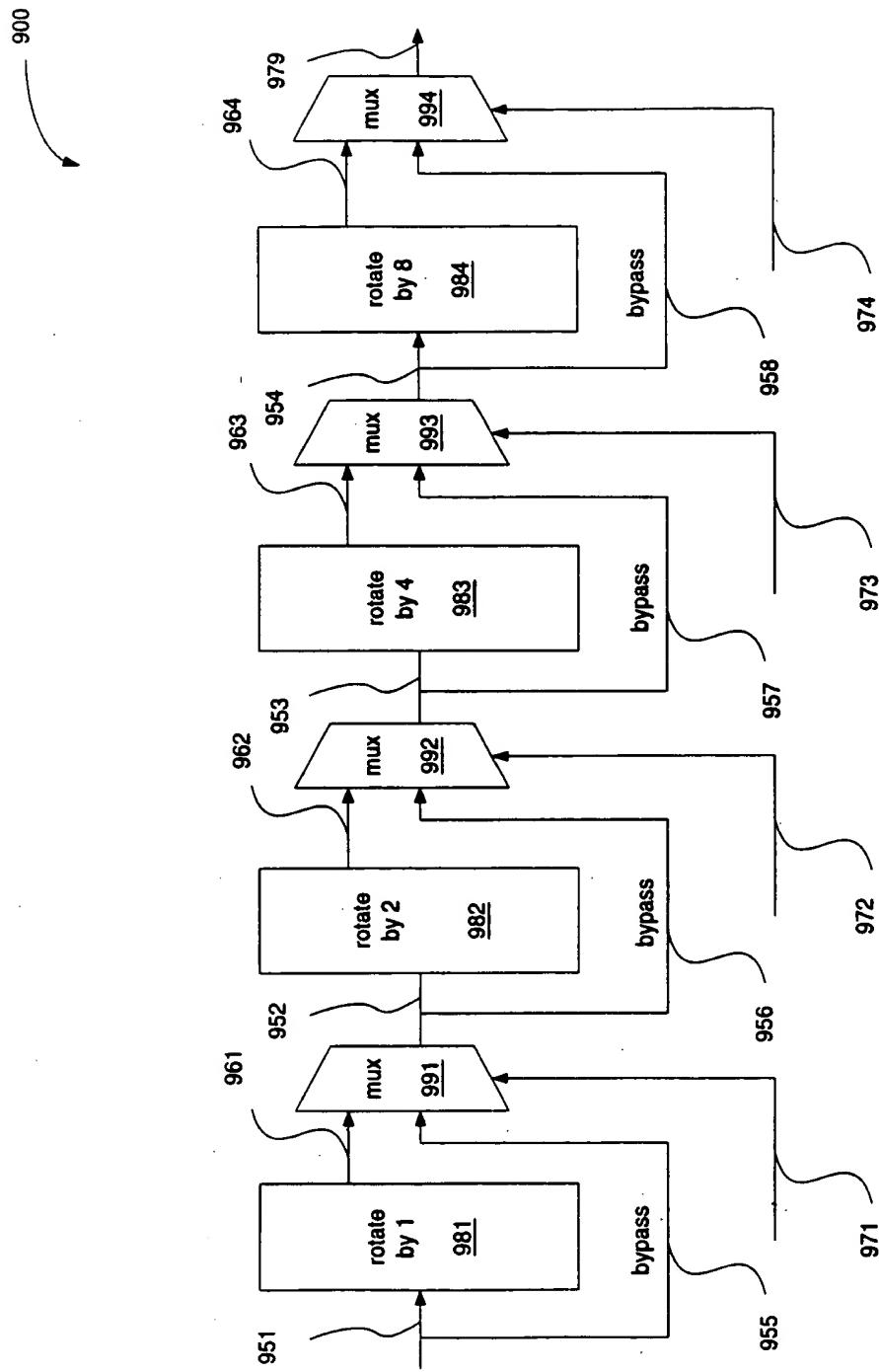


Figure 9

Serial Number	Shift Amount Value	Value of the Mux Control signal mxcntl[15:0]
1	4'b0000	16'b00000000000000000000
2	4'b0001	16'b10000000000000000000
3	4'b0010	16'b11000000000000000000
4	4'b0011	16'b11100000000000000000
5	4'b0100	16'b11110000000000000000
6	4'b0101	16'b11111000000000000000
7	4'b0110	16'b11111100000000000000
8	4'b0111	16'b11111110000000000000
9	4'b1000	16'b11111111000000000000
10	4'b1001	16'b11111111100000000000
11	4'b1010	16'b11111111110000000000
12	4'b1011	16'b11111111111000000000
13	4'b1100	16'b11111111111100000000
14	4'b1101	16'b11111111111110000000
15	4'b1110	16'b11111111111111000000
16	4'b1111	16'b11111111111111100000

FIGURE 10

Rotate_Amount	Input	Output
0	{ABCDEFGHIJKLMNOP}	{ABCDEFGHIJKLMNOP}
1	{ABCDEFGHIJKLMNOP}	{PABCDEFGHIJKLMNO}
2	{ABCDEFGHIJKLMNOP}	{OPABCDEFGHIJKLMN}
3	{ABCDEFGHIJKLMNOP}	{NOPABCDEFGHIJKLM}
4	{ABCDEFGHIJKLMNOP}	{MNOPABCDEFGHJKL}
5	{ABCDEFGHIJKLMNOP}	{LMNOPABCDEFGHJK}
6	{ABCDEFGHIJKLMNOP}	{KLMNOPABCDEFGHJ}
7	{ABCDEFGHIJKLMNOP}	{JKLMNOPABCDEFHI}
8	{ABCDEFGHIJKLMNOP}	{UJKLMNOPABCDEFGH}
9	{ABCDEFGHIJKLMNOP}	{HJKLMNOPABCDEFG}
10	{ABCDEFGHIJKLMNOP}	{GHJKLMNOPABCDEF}
11	{ABCDEFGHIJKLMNOP}	{FGHIJKLMNOPABCDE}
12	{ABCDEFGHIJKLMNOP}	{EFGHIJKLMNOPABCD}
13	{ABCDEFGHIJKLMNOP}	{DEFGHIJKLMNOPABC}
14	{ABCDEFGHIJKLMNOP}	{CDEFGHIJKLMNOPAB}
15	{ABCDEFGHIJKLMNOP}	{BCDEFGHIJKLMNOPA}

FIGURE 17